STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.: MO-0035009

Owner: Sikeston Board of Municipal Utilities

Owner's Address: PO Box 370, Sikeston, MO 63801

Continuing Authority: Same as above Address: Same as above

Facility Name: Sikeston Wastewater Treatment Facility Facility Address: South Ingram Road, Sikeston, MO 63801

Legal Description: SE ¼, NW ¼, Sec. 29, T26N, R14E, Scott County

Latitude/Longitude: Outfall #001 +3652109/-08933568, Outfall #002 +3652101/-08933580

Outfall #003 +3652098/-08933560

Receiving Stream: St. John's Ditch (P)

First Classified Stream and ID: St. John's Ditch (P) (03138)

USGS Basin & Sub-watershed No.: (08020201-030003)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See Page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

August 13, 1999 January 10, 2003

Effective Date Revised

Stephen M. Albrod., Directol. Department of Natural Resources Executive Secretary. Clean Water Commission

August 12, 2004

Expiration Date

Gary L. Gaines, P.E., Director, Southeast Regional Office

MO 780-0041 (10-93)

FACILITY DESCRIPTION: (continued)

Outfall #001 - POTW - SIC #4952

Oxidation ditch/contact stabilization plant/sludge storage tank/sludge is land applied. Design population equivalent is 30,000.

Design flow is 5.0 MGD.

Actual flow is 2.2 MGD.

Design sludge production is 615 dry tons/year.

Actual sludge production is 205.19 dry tons/year.

Outfalls #002 & #003 - Stormwater runoff - SIC #4952 Stormwater runoff from site.

An oxidation ditch treatment plant built in 1988, a contact stabilization plant built in 1969, and an activated sludge treatment plant built in 1954. The combined plant capacity is 5.0 MGD. The oxidation ditch and contact stabilization facilities are in use, and the activated sludge plant is maintained as a standby. A variety of grit removal, comminutor, clarifier, and sludge storage, thickening, and disposal facilities and equipment exist. Sludge is applied to agricultural land.

Outfall #001

Discharge pipe at St. John's Ditch.

Outfall #002

Western most stormwater drainage from treatment plant complex on south side.

Outfall #003

Eastern most stormwater drainage from treatment plant complex on south side.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 3 of 11

PERMIT NUMBER MO-0035009

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

		FINAL EFFLUENT LIMITATIONS		MONITORING REQUIREMENTS			
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE	
Outfall #001							
Flow	MGD	*		*	once/weekday**	24 hr. total	
Biochemical Oxygen Demand ₅ ***	mg/L		45	30	once/week	24 hr. composite (Note 4)	
Total Suspended Solids***	mg/L		45	30	once/week	24 hr. composite (Note 4)	
pH - Units	SU	***		****	once/week	grab	
Ammonia as N	mg/L	*		*	once/week	grab	
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE July 28, 2001.							
Lead, Total	mg/L	0.036			twice/year in May & Noveml	grab oer	
Cadmium, Total	mg/L	0.021			twice/year in May & Novem	grab oer	
Cyanide, Total	mg/L	0.008			twice/year in May & Noveml	grab per	
Copper, Total	mg/L	0.046			twice/year in May & Noveml	grab oer	
Chromium, Total	mg/L	0.068			twice/year in May & Noveml	grab oer	
Zinc, Total	mg/L	0.552			twice/year in May & Noveml	grab per	
Nickel, Total	mg/L	0.8			twice/year in May & Noveml	grab oer	
Total Toxic Organics (Note 1)	mg/L	*			twice/year in May & Noveml	grab oer	
MONITORING REPORTS SHALL BE SUBM	ITTED ANNU	ALLY; THE FI	RST REPORT	Γ IS DUE <u>Ja</u> ı	nuary 28, 2002 .		
Whole Effluent Toxicity (WET) Test	%Surviva	l (See Special Conditions)		once/year (Note 4)	24 hr. composite		

MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u>; THE FIRST REPORT IS DUE <u>October 28, 2001</u>. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I, II & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u>, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 4 of 11

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OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE	
Outfall #001 - In-Stream Monitoring - St. John's Ditch at Hwy. 60 Crossing (Note 2)						Note 2)	
Flow	CFS	*		*	once/month	instantaneous estimate	
Dissolved Oxygen	mg/L	*		*	once/month**	*** grab	
pH - Units	SU	*		*	once/month	grab	
H ₂ O Temperature	°C	*		*	once/month	grab	
Ammonia as N	mg/L	*		*	once/month	grab	
MONITORING REPORTS SHALL BE SUBI	MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE July 28, 2001.						
Outfalls #002 & #003 (Note 3)							
Flow	GPM	*		*	once/year	****	
Biochemical Oxygen Demand ₅	mg/L		45	30	once/year	grab	
Total Suspended Solids	mg/L		45	30	once/year	grab	
pH - Units	SU	****		***	once/year	grab	
Ammonia as N	mg/L	*		*	once/year	grab	
Cadmium	mg/L	*		*	once/year	grab	
Chromium	mg/L	*		*	once/year	grab	
Copper	mg/L	*		*	once/year	grab	
Lead	mg/L	*		*	once/year	grab	
Nickel	mg/L	*		*	once/year	grab	
Zinc	mg/L	*		*	once/year	grab	
Rainfall	inches	*		*	once/year	*****	

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MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Sample once each weekday means: Monday, Tuesday, Wednesday, Thursday and Friday.
- *** This facility is required to meet a removal efficiency of 85% or more.
- **** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- **** Sample once per month in the months of June, July, August, and September.
- ***** The instantaneous flow shall be estimated when the sample is taken.
- ****** The total rainfall within 24 hours preceding the sampling event shall be recorded.
- Note 1 See Total Toxic Organics Page 11.
- Note 2 If ditch flow exceeds 20 CFS No sampling of ditch is required Report "flow > 20 CFS".
- Note 3 Sample once per year during rainfall event causing discharge from outfall.
- Note 4 A 24 hour composite sample for this parameter must consist of one sample collected every hour over the entire 24 hour period. These samples are to be combined in a single bottle and mixed, prior to analysis, to provide a more representative sampling of heterogeneous matrices.

C. SPECIAL CONDITIONS

- 1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

- 2. All outfalls must be clearly marked in the field.
- 3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.

4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 μg/L);
 - (2) Two hundred micrograms per liter (200 $\mu g/L$) for acrolein and acrylonitrile; five hundred micrograms per liter (500 $\mu g/L$) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
- 5. Report as no-discharge when a discharge does not occur during the report period.
- 6. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
- 7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
 - (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
 - (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids that are removed from the domestic wastewater treatment lagoon during lagoon clean-out and maintenance activities. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids from the lagoon. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

- 8. Permittee shall implement and enforce its approved pretreatment program in accordance with the requirements of 40 CFR Part 403. The approved pretreatment program is hereby incorporated by reference.
- 9. Permittee shall submit to the Department on or before March 31st of each year a report briefly describing its pretreatment activities during the previous calendar year. At a minimum, the report shall include the following:
 - (a) An updated list of the Permittee's Industrial Users, including their names and addresses, or a list of deletions and additions keyed to a previously submitted list. The Permittee shall provide a brief explanation of each deletion. This list shall identify which Industrial Users are subject to categorical pretreatment Standards and specify which Standards are applicable to each Industrial User. The list shall indicate which Industrial Users are subject to local standards that are more stringent than the categorical Pretreatment Standards. The Permittee shall also list the Industrial Users that are subject only to local Requirements;
 - (b) A summary of the status of Industrial User compliance over the reporting period;
 - (c) A summary of compliance and enforcement activities (including inspections) conducted by the Permittee during the reporting period; and
 - (d) Any other relevant information requested by the Department.
- 10. As required in 40 CFR 122.21 (j)(4) the permittee shall, as part of its renewal application for this permit, submit to the department a written technical evaluation of the need to revise local limits under 40 CFR 403.5 (c)(1).
- 11. Whole Effluent Toxicity (WET) tests will be conducted as follows:

SUMMARY OF WET TESTING FOR THIS PERMIT							
OUTFALL	A.E.C. %	FREQUENCY	SAMPLE TYPE	MONTH			
001	100%	once/year	24 hr. composite	July			

- a. Test Schedule and Follow-Up Requirements
 - (1) Perform a single-dilution test in the months and at the frequency specified above.

If the effluent passes the test, do not repeat the test until the next test period. Submit results with the annual report.

If the effluent fails the test, a multiple dilution test shall be performed within 30 days, and biweekly thereafter, until one of the following conditions are met:

- (a) THREE CONSECUTIVE MULTIPLE-DILUTION TESTS PASS. No further tests need to be performed until next regularly scheduled test period.
- (b) A TOTAL OF THREE MULTIPLE-DILUTION TESTS FAIL.

- 11. Whole Effluent Toxicity (WET) (continued)
 - a. Test Schedule and Follow-Up Requirements (continued)
 - (2) The permittee shall submit a summary of all test results for the test series to the WPCP, Planning Section, P.O. Box 176, Jefferson City, MO 65102 within 14 days of the third failed test. DNR will contact the permittee with initial guidance on conducting a toxicity identification evaluation (TIE) or toxicity reduction evaluation (TRE). The permittee shall submit a plan for conducting a TIE or TRE to the Planning Section of the WPCP within 60 days of the date of DNR's letter. This plan must be approved by DNR before the TIE or TRE is begun. A schedule for completing the TIE or TRE shall be established in the plan approval.
 - (3) Upon DNR's approval, the TIE/TRE schedule may be modified if toxicity is intermittent during the TIE/TRE investigations. A revised WET test schedule may be established by DNR for this period.
 - (4) If a previously completed TIE has clearly identified the cause of toxicity, additional TIEs will not be required as long as effluent characteristics remain essentially unchanged and the permittee is proceeding according to a DNR approved schedule to complete a TRE and reduce toxicity. Regularly scheduled WET testing as required in the permit, without the follow-up requirements, will be required during this period.
 - (5) In addition to the WET test summary report required in part (2), all failing test results shall be reported to DNR within 14 days of the availability of the results.
 - (6) All WET test results for the reporting period shall be summarized and submitted to DNR by the end of the following October. When WET test sampling is required to run over one DMR period, each DMR report shall contain information generated during the reporting period.
 - b. PASS/FAIL procedure and effluent limitations
 - (1) To pass a single-dilution test, mortality observed in the AEC test concentration shall not be significantly different (at the 95% confidence level; p = 0.05) than that observed in the upstream receiving-water control sample. The appropriate statistical tests of significance will be those outlined in the most current USEPA acute toxicity manual or those specified by the MDNR.
 - (2) To pass a multiple-dilution test:
 - (a) the computed percent effluent at the edge of the zone of initial dilution, Acceptable Effluent Concentration (AEC), must be less than three-tenths (0.3) of the LC_{50} concentration for the most sensitive of the test organisms; or,
 - (b) all dilutions equal to or greater than the AEC must be nontoxic. Failure of one multiple-dilution test is an effluent limit violation.

11. Whole Effluent Toxicity (WET) (continued)

c. Test Conditions

- (1) Test species: Ceriodaphnia dubia and Pimephales promelas (fathead minnow). Organisms used in WET testing should come from cultures reared for the purpose of conducting toxicity tests and should be cultured in a manner consistent with the most current USEPA guidelines. All test animals should be cultured as described in EPA-600/4-90/027.
- (2) Test period: 48 hours at the "Acceptable Effluent Concentration" (AEC) specified above.
- (3) When dilutions are required, upstream receiving stream water shall be used as dilution water. If upstream water is unavailable or if mortality in the upstream water exceeds 10%, "reconstituted" water will be used as dilution water. Procedures for generating reconstituted water will be supplied by the MDNR upon request.
- (4) Tests should be initiated immediately after the sample is collected, but tests must be initiated no later than 36 hours after sample collection.
- (5) Single-dilution tests will be run with:
 - (a) Effluent at the AEC concentration;
 - (b) 100% receiving-stream water (if available), collected upstream of the outfall at a point beyond any influence of the effluent; and
 - (c) reconstituted water.
- (6) Multiple-dilution tests will be run with:
 - (a) 100%, 50%, 25%, 12.5%, and 6.25% effluent, unless the AEC is less than 25% effluent, in which case dilutions will be 4 times the AEC, two times the AEC, AEC, 1/2 AEC and 1/4 AEC;
 - (b) 100% receiving-stream water (if available), collected upstream of the outfall at a point beyond any influence of the effluent; and
 - (c) reconstituted water.
- (7) If reconstituted-water control mortality for a test species exceeds 10%, the entire test will be rerun.

SUMMARY OF TEST METHODOLOGY FOR WHOLE-EFFLUENT TOXICITY TESTS

Whole-effluent-toxicity test required in NPDES permits shall use the following test conditions when performing single or multiple dilution methods. Any future changes in methodology will be supplied to the permittee by the Missouri Department of Natural Resources (MDNR). Unless otherwise specified by MDNR, procedures should be consistent with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, EPA/600/4-90/027.

Test conditions for Ceriodaphnia dubia:

Test duration: 48 h Temperature: 25 \forall 2EC

Light Quality: Ambient laboratory illumination

Photoperiod: 16 h light, 8 h dark
Size of test vessel: 30 mL (minimum)
Volume of test solution: 15 mL (minimum)

Age of test organisms: <24 h old

No. of animals/test vessel: 5
No. of replicates/concentration: 4

No. of organisms/concentration: 20 (minimum)

Feeding regime: None (feed prior to test)

Aeration: None

Dilution water: Upstream receiving water; if no upstream

flow, synthetic water modified to reflect

effluent hardness.

Endpoint: Mortality (Statistically significant

difference from upstream receiving water

control at p# 0.05)

Test acceptability criterion: 90% or greater survival in controls

Test conditions for (Pimephales promelas):

Test duration: 48 h Temperature: 25 \forall 2EC

Light Quality: Ambient laboratory illumination

Photoperiod: 16 h light/ 8 h dark
Size of test vessel: 250 mL (minimum)
Volume of test solution: 200 mL (minimum)

Age of test organisms: 1-14 days (all same age)

No. of animals/test vessel:

No. of replicates/concentration: 4 (minimum) single dilution method

No. of organisms/concentration:

2 (minimum) multiple dilution method
40 (minimum) single dilution method
20 (minimum) multiple dilution method

Feeding regime: None (feed prior to test)

Aeration: None, unless DO concentration falls below 4.0 mg/L; rate should not exceed 100 bubbles/min.

Dilution water: Upstream receiving water; if no upstream

flow, synthetic water modified to reflect

effluent hardness.

Endpoint: Mortality (Statistically significant

difference from upstream receiving water

control at p# 0.05)

Test Acceptability criterion: 90% or greater survival in controls

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Acenaphthene 4-chlorophenyl phenyl ether Acrolein 4-bromophenyl phenyl ether Bis (2-chloroisopropyl) ether Acrylonitrile Bis (2-chloroethoxy) methane Benzene Benzidine Methylene Chloride (dichloromethane) Carbon Tetrachloride (tetrachloromethane) Methyl Chloride (chloromethane) Methyl bromide (bromomethane) Chlorobenzene Bromoform (tribromomethane) 1,2,4-trichlorobenzene Hexachlorobenzene Dichlorobromomethane 1,2-dichloroethane Chlorodibromemethane 1,1,1-trichloroethane Hexachlorobutadiene Hexachloroethane Hexachlorocyclopentadiene 1,1-dichloroethane Isophorone 1,1,2-trichloroethane Naphthalene 1,1,2,2-tetrachloroethane Nitrobenzene Chloroethane 2-nitrophenol Bis (2-chloroethyl) ether 4-nitrophenol 2-chloroethyl vinyl ether 2,4-dinitrophenol N-nitrosodi-n-propylamine 4,6-dintro-o-cresol Pentachlorophenol N-nitrosodimethylamine Phenol N-nitrosodiphenylamine Bis (2-ethylhexyl) phthalate Phenanthrene Butyl benzyl phthalate 1,2,5,6-dibenzanthracene (dibenzo(a,h)anthracene) Di-n-butyl phthalate Indeno (1,2,3-cd) pyrene (2,3-o-phenylene pyrene) Di-n-octyl phthalate Pyrene Diethyl phthalate Tetrachloroethylene Dimethyl phthalate Toluene Trichloroethylene 1,2-benzanthracene (benzo(a)anthracene) Benzo(a)pyrene (3,4-benzopyrene) Vinyl Chloride (chloroethylene) 3,4-benzofluoranthene (benzo(b)fluoranthene) Aldrin 11,12-benzofluoranthene (benzo(k)fluoranthene) Dieldrin Chrysene Chlordane (technical mixture and metabolites) Anthracene 4,4-DDT 1,12-benzoperylene (benzo(ghi)perylene) 4,4-DDE (p,p-DDX) Fluorene 4,4-DDD (p,p-TDE) 2-chloronaphthalene Alpha-endosulfan 2,4,6-trichlorophenol Beta-endosulfan Parachlorometa cresol Endosulfan sulfate Chloroform (trichloromethane) Endrin 2-chlorophenol Endrin aldehyde 1,2-dichlorobenzene Heptachlor 1,3-dichlorobenzene Heptachlor epoxide (BHC hexachlorocyclohexane) 1,4-dichorobenzene Alpha-BHC 3,3-dichlorobenzidine Beta-BHC 1,1-dichloroethylene Gamma-BHC 1,2-trans-dichloroethylene Delta-BHC (PCB polychlorinated biphenyls) 2,4-dichlorophenol PCB-1242 (Arochlor 1242) 1,2-dichloropropane (1,3-dichloropropane) PCB-1254 (Arochlor 1254) PCB-1221 (Arochlor 1221) 2,4-dimethylphenol 2,4-dinitrotoluene PCB-1232 (Arochlor 1232) 2,6-dinitrotoluene PCB-1248 (Arochlor 1248) PCB-1260 (Arochlor 1260) 1,2-diphenylhydrazine Ethylbenzene PCB-1016 (Arochlor 1016) Fluoranthene Toxaphene